

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

Claim 1 (Previously Presented): An image pickup apparatus having an approximately rectangular parallelepiped shape extending longer in a height direction of a body thereof in an image pickup state, said image pickup apparatus comprising:

a display part of an approximately rectangular shape disposed on a side face of the image pickup apparatus body and having a display plane to display a picked-up image; and

a moving member for enabling said display part to move between a first position in which said display part makes the picked-up image viewable and a second position in which said display part is stowed in the image pickup apparatus body,

wherein, when said display part is in the second position, an image pickup optical axis of the image pickup apparatus body is approximately parallel with said display plane and a major-side direction of said display plane coincides with a major-side direction of the image pickup apparatus body, and when said display part is in the first position, a minor-side direction of said display plane coincides with the major-side direction of the image pickup apparatus body.

Claim 2 (Previously Presented): An image pickup apparatus according to claim 1, wherein, when said display part is in the first position, an image pickup optical axis of the image pickup apparatus body is approximately perpendicular to the display plane of said display part.

Claim 3 (Previously Presented): An image pickup apparatus according to claim 1, wherein, when said display part is in the first position, an image pickup optical axis of the image pickup apparatus body is approximately perpendicular with the display plane of said display part.

Claim 4 (Previously Presented): An image pickup apparatus according to claim 1, wherein a length of said display part in the direction parallel with a minor-side direction of said display plane is approximately equal to a length in a minor-side direction of the image pickup apparatus body.

Claim 5 (Previously Presented): An image pickup apparatus according to claim 1, further comprising:

a sound output device which outputs a sound in company with display of a reproduced image at said display part,

wherein said sound output device is disposed at a lower portion of the side face of said image pickup apparatus body on which said display part is connected to the image pickup apparatus body, and is arranged to be exposed outside when said display part is in the first position and to be covered by said display part when said display part is in the second position.

Claim 6 (Previously Presented): An image pickup apparatus according to claim 1, further comprising:

a sound-volume adjusting device which adjusts volume of a sound outputted in company with display of a reproduced image at said display part,

wherein said sound-volume adjusting device is disposed at a lower portion of the side face of said image pickup apparatus body on which said display part is connected to the image pickup apparatus body, and is arranged to be exposed outside when said display part is in the

first position and to be covered by said display part when said display part is in the second position.

Claim 7 (Previously Presented): An image pickup apparatus according to claim 1, further comprising:

an operation device operable for displaying a reproduced image at said display part, wherein said operation device is disposed at a lower portion of the side face of said image pickup apparatus body on which said display part is connected to the image pickup apparatus body, and is arranged to be exposed outside when said display part is in the first position and to be covered by said display part when said display part is in the second position.

Claim 8 (Previously Presented): An image pickup apparatus according to claim 1, wherein said moving member is connected to a minor side of said display part at a position which deviates from a center line of the minor side of said display part.

Claim 9 (Previously Presented): An image pickup apparatus having approximately rectangular parallelepiped shape extending longer in a height direction of a body thereof in an image pickup state, said image pickup apparatus comprising:

a display part of an approximately rectangular shape disposed on a side face of the image pickup apparatus body to display a picked-up image, the side face of the image pickup apparatus body is approximately parallel with an image pickup optical axis of the image pickup apparatus body;

a first member for enabling said display part to rotate around a first shaft approximately parallel with an incident optical axis from a state where a major-side direction of said display part is situated approximately parallel with a major-side direction of the image pickup apparatus body; and

a second member for enabling said display part to rotate around a second shaft perpendicular to the incident optical axis in such a state that said display part has rotated approximately 90 degrees from the state where the major-side direction of said display part is situated approximately parallel with the major-side direction of the image pickup apparatus body.

Claim 10 (Previously Presented): An image pickup apparatus according to claim 9, wherein said second member includes:

a rotating member disposed at a central portion of a side face along a minor side of said display part; and

a sliding member fixed to the image pickup apparatus body and arranged to slide along a guide member of the side face of said display part.

Claim 11 (Previously Presented): An image pickup apparatus according to claim 10, wherein said display part is made rotatable when said rotating member and said sliding member fittingly engage with each other.

Claim 12 (Previously Presented): An image pickup apparatus according to claim 9, further comprising:

a detection device which detects the state where the major-side direction of said display part is situated approximately parallel with the major-side direction the image pickup apparatus body; and

a control circuit which causes said display part to display an image with a minor-side direction of said display part put on a horizontal plane, when the state where the major-side direction of said display part is situated approximately parallel with the major-side direction the image pickup apparatus body is detected by said detection device.

Claim 13 (Withdrawn): An image pickup apparatus having an approximately rectangular parallelepiped shaped extending longer in a height direction of a body thereof in an image pickup state, said image pickup apparatus comprising:

display means having a display image plane of an approximately rectangular shape and disposed such that a major-side direction of the display image plane coincides with a major-side direction of the image pickup apparatus body; and

display control means having a first mode of causing said display means to display an image with the major-side direction of the display image plane of said display means put on a horizontal plane and a second mode of causing said display means to display an image with a minor-side direction of the display image plane of said display means put on a horizontal plane.

Claim 14 (Withdrawn): An image pickup apparatus according to claim 13, wherein said display control means causes said display means to display an image in the first mode when the image is based on image data stored in storage means, and causes said display means to display an image in the second mode when the image is based on an image signal outputted from an image sensor.

Claim 15 (Withdrawn): An image pickup apparatus according to claim 13, further comprising:

designation means for designating an image area to be displayed on the display image plane of said display means in the second mode.

Claim 16 (Withdrawn): An image pickup apparatus according to claim 15, wherein said display control means causes said display means to display an image in such an enlarged state that a length in a vertical direction of the image becomes approximately equal to a length in the major-side direction of the display image plane of said display means.

Claim 17 (Withdrawn): An image pickup apparatus according to claim 13, wherein said display control means causes, in the second mode, said display means to display an image in such a state that a length in a horizontal direction of the image is approximately equal to a length in the minor-side direction of the display image plane of said display means, and causes said display means to display operation items operable for an image pickup operation in a vacant area of the display image plane.

Claim 18 (Withdrawn): An image pickup apparatus according to claim 17, further comprising:
a touch panel disposed on the display image plane of said display means for detecting an instruction given to an operation item displayed on the display image plane of said display means in the second mode.

Claim 19 (Withdrawn): An image pickup apparatus according to claim 13, wherein said display control means causes, in the first mode, said display means to display, in a vacant area on the display image plane, operation items operable for an image reproducing and displaying operation.

Claim 20 (Withdrawn): An image pickup apparatus according to claim 19, further comprising:
a touch panel disposed on the display image plane of said display means for detecting an instruction given to an operation item displayed on the display image plane of said display means in the second mode.

Claim 21 (Previously Presented): An image pickup apparatus comprising:

a display part disposed on a side face of the image pickup apparatus body and having a display plane to display a picked-up image; and

a moving member for enabling said display part to move between a first position in which said display part makes the picked-up image viewable and a second position in which said display part is stowed in the image pickup apparatus body,

wherein, said moving member comprises a first member for enabling said display part to rotate around a first shaft from a state where said display part is in the first position, and a second member for enabling said display part to rotate around a second shaft different from said first shaft in such a state that said display part has rotated from the state where said display part is in the first position,

when said display part is in the second position, an image pickup optical axis of the image pickup apparatus body is approximately parallel with said display plane and a minor-side direction of said display plane, and when said display part is in the first position, said image pickup optical axis of the image pickup apparatus body is approximately perpendicular with said display plane, and

wherein said first shaft is approximately parallel with an incident optical axis and said second shaft is approximately perpendicular to the incident optical axis.

Claims 22-26 (Cancelled)

Claim 27 (Previously presented): An image pickup apparatus according to Claim 44, further comprising:

a second operation member located on a second operation face of said body, wherein said second operation member is used when picking up image, and said second operation face adjoins said first operation face and is exposed outside regardless of the position of said display part.

Claims 28-30 (Cancelled)

Claim 31 (Previously presented): An image pickup apparatus according to claim 45, further comprising:

an operation member located on a second face of said body, wherein said operation member is used when picking up image, and said second face adjoins said first face and is exposed outside regardless of the position of said display part.

Claims 32-35 (Cancelled)

Claim 36 (Currently amended): An image pickup apparatus including a lens portion for converging an object image comprising:

a display part including a display face for displaying a picked-up image, wherein said display part is surrounded by a first side, second side, third side, and fourth side, wherein said first side and said second side face each other, and said third side and said fourth side face each other, wherein a length between said first side and said second side is longer than a length between said third side and said fourth side, wherein said first side and said second side is shorter than said third side and said fourth side;

a body including a first face, said first face is surrounded by a fifth side, sixth side, seventh side and eighth side, wherein said fifth side and said sixth side face each other, and said seventh side and said eighth side face each other, wherein a length between said fifth side and said sixth side is longer than a length between said seventh side and said eighth side, wherein said fifth side and said sixth side is shorter than said seventh side and said eighth side; and

a moving member for moving said display part to a first position in which a back side of said display part faces the object and said display face of said display part faces an operator who uses said image pickup apparatus while said operator is picking up an image of the object,

makes the picked-up image viewable, and a second position in which said display part is stowed in the image pickup apparatus body;

~~wherein said moving member includes a first moving member and a second moving member, said first moving member enables said display part to rotate around a first shaft so that said display part moves toward an upper side in said image pickup apparatus, and said second moving member enables said display part to rotate around a second shaft substantially perpendicular to said first shaft,~~

wherein when said display part is in the first position, third direction of said display part substantially ~~coincides with~~ parallels second direction of said body, and when said display part is in the second position, first direction of said display part substantially ~~coincides with~~ parallels second direction of said body,

wherein said first direction is a direction which goes to said second side from said first side, said second direction is a direction which goes to said sixth side from said fifth side, and said third direction is a direction which goes to said fourth side from said third side.

Claim 37 (Previously Presented): An image pickup apparatus according to claim 36, further comprising:

an operation member located on a second face of said body, wherein said operation member is used when picking up image, and said second face adjoins said first face and is exposed outside regardless of the position of said display part.

Claim 38 (Currently amended): An image pickup apparatus including a lens portion for converging an object image comprising:

a display part including a display face for displaying a picked-up image, wherein said display part is surrounded by a first side, second side, third side and fourth side, wherein said

first side and said second side face each other, and said third side and said fourth side face each other, wherein a length between said first side and said second side is longer than a length between said third side and said fourth side, wherein said first side and said second side is shorter than said third side and said fourth side;

a body including a first operation face having a first operation member operated by an operator who uses said image pickup apparatus, said first operation face is surrounded by a fifth side, sixth side, seventh side and eighth side, wherein said fifth side and said sixth side face each other, and said seventh side and said eighth side face each other, wherein a length between said fifth side and said sixth side is longer than a length between said seventh side and said eighth side, wherein said fifth side and said sixth side is shorter than said seventh side and said eighth side; and

a moving member for moving said display part to a first position in which a back side of said display part faces the object and said display face of said display part faces said operator while said operator is picking up an image of the object, ~~makes the picked-up image viewable,~~ and a second position in which said display part is stowed in the image pickup apparatus body;

~~wherein said moving member includes a first moving member and a second moving member, said first moving member enables said display part to rotate around a first shaft so that said display part moves toward an upper side in first operation face, and said second moving member enables said display part to rotate around a second shaft substantially perpendicular to said first shaft,~~

wherein when said display part is in the first position, third direction of said display part substantially ~~coincides with~~ parallels second direction of said body, and when said display part

is in the second position, first direction of said display part substantially ~~coincides with~~
parallels second direction of said body,

wherein said first direction is a direction which goes to said second side from said first side, said second direction is a direction which goes to said sixth side from said fifth side, and said third direction is a direction which goes to said fourth side from said third side.

Claim 39 (Previously Presented): An image pickup apparatus according to claim 38, further comprising:

a second operation member located on a second operation face of said body, wherein said second operation member is used when picking up image, and said second operation face adjoins said first operation face and is exposed outside regardless of the position of said display part.

Claims 40-41 (Cancelled)

Claim 42 (Previously Presented): An image pickup apparatus according to claim 36, wherein said lens portion is located in a face which adjoins said first face and includes said seventh side.

Claim 43 (Previously Presented): An image pickup apparatus according to claim 38, wherein said lens portion is located in a face which adjoins said first face and includes said seventh side.

Claim 44 (Currently amended): An image pickup apparatus including a lens portion for converging an object image comprising:

a display part including a display face for displaying a picked-up image;

a body including a first operation face having a first operation member operated by an operator who uses said image pickup apparatus; and

a moving member for moving said display part to a first position in which a back side of said display part faces the object and said display face of said display part faces said operator

~~while said operator is picking up an image of the object, makes the picked-up image viewable,~~
and a second position in which said display part is stowed in the image pickup apparatus body;

~~wherein said moving member includes a first moving member and a second moving member, said first moving member enables said display part to rotate around a first shaft so that said display part moves toward an upper side in said first operation face, and said second moving member enables said display part to rotate around a second shaft substantially perpendicular to said first shaft,~~

wherein when said display part is in the second position, a major-side direction of said display part substantially ~~coincides with~~ parallels a major-side direction of said body, and when said display part is in the first position, a minor-side direction of said display part substantially ~~coincides with~~ parallels a major-side direction of said body.

Claim 45 (Currently amended): An image pickup apparatus including a lens portion for converging an object image comprising:

a display part including a display face for displaying a picked-up image;

a body including a first face; and

a moving member for moving said display part to a first position in which a back side of said display part faces the object and said display face of said display part faces an operator who uses said image pickup apparatus while said operator is picking up an image of the object,
~~said display part makes the picked-up image viewable,~~ and a second position in which said display part is stowed in the image pickup apparatus body;

~~wherein said moving member includes a first moving member and a second moving member, said first moving member enables said display part to rotate around a first shaft so that said display part moves toward an upper side in said image pickup apparatus, and said second~~

~~moving member enables said display part to rotate around a second shaft substantially perpendicular to said first shaft,~~

wherein when said display part is in the second position, a major-side direction of said display part substantially ~~coincides with~~ parallels a major-side direction of said body, and when said display part is in the first position, a minor-side direction of said display part substantially ~~coincides with~~ parallels a major-side direction of said body.

Claim 46 (Currently amended): An image pickup apparatus including a lens portion for converging an object image comprising:

a display part including a display face for displaying a picked-up image;

a body including a first operation face having a first operation member operated by an operator who uses said image pickup apparatus; and

a moving member for moving said display part to a first position in which said operator can view said display face of said display part ~~causes the picked-up image to view~~, and a second position in which said display part is stowed in the image pickup apparatus body;

wherein said operator rotates said display part around a first shaft from said second position toward an upper side of said image pickup apparatus so that said display part moves from said second position to a third position and, said operator rotates said display part around a second shaft approximately perpendicular to said first shaft from said third position so that said display part moves from said third position to said first position;

~~wherein said moving member includes a first moving member and a second moving member, said first moving member enables said display part to rotate around a first shaft so that said display part moves toward an upper side in said first operation face, and said second~~

~~moving member enables said display part to rotate around a second shaft substantially perpendicular to said first shaft;~~

wherein when said display part is in the second position, a major-side direction of said display part substantially ~~coincides with~~ parallels a major-side direction of said body, and when said display part is in the first position, a minor-side direction of said display part substantially ~~coincides with~~ parallels a major-side direction of said body.

Claim 47 (Previously presented): An image pickup apparatus according to claim 46, further comprising:

an operation member located on a second face of said body, wherein said operation member is used when picking up image, and said second face adjoins said first face and is exposed outside regardless of the position of said display part.

Claim 48 (Previously presented): An image pickup apparatus according to claim 46, wherein said lens portion is located in a face which adjoins said first face and includes said seventh side.

Claim 49 (Currently amended): An image pickup apparatus including a lens portion for converging an object image comprising:

a display part including a display face for displaying a picked-up image;

a body including a first face; and

a moving member for moving said display part to a first position in which an operator who uses said image pickup apparatus can view said display face of said display part ~~causes the picked-up image to view~~, and a second position in which said display part is stowed in the image pickup apparatus ~~body~~;

wherein said operator rotates said display part around a first shaft from said second position toward an upper side of said image pickup apparatus so that said display part moves

from said second position to a third position and, said operator rotates said display part around a second shaft approximately perpendicular to said first shaft from said third position so that said display part moves from said third position to said first position;

~~wherein said moving member includes a first moving member and a second moving member, said first moving member enables said display part to rotate around a first shaft so that said display part moves toward an upper side in said image pickup apparatus, and said second moving member enables said display part to rotate around a second shaft substantially perpendicular to said first shaft,~~

wherein when said display part is in the second position, a major-side direction of said display part substantially ~~coincides with~~ parallels a major-side direction of said body, and when said display part is in the first position, a minor-side direction of said display part substantially ~~coincides with~~ parallels a major-side direction of said body.

Claim 50 (Previously presented): An image pickup apparatus according to claim 49, further comprising:

an operation member located on a second face of said body, wherein said operation member is used when picking up image, and said second face adjoins said first face and is exposed outside regardless of the position of said display part.

Claim 51 (Previously presented): An image pickup apparatus according to claim 49, wherein said lens portion is located in a face which adjoins said first face and includes said seventh side.

Claim 52 (Currently amended): An image pickup apparatus including a lens portion for converging an object image comprising:

a display part including a display face for displaying a picked-up image, wherein said display part is surrounded by a first side, second side, third side, and fourth side, wherein said

first side and said second side face each other, and said third side and said fourth side face each other, wherein a length between said first side and said second side is longer than a length between said third side and said fourth side, wherein said first side and said second side is shorter than said third side and said fourth side;

a body including a first face, said first face is surrounded by a fifth side, sixth side, seventh side and eighth side, wherein said fifth side and said sixth side face each other, and said seventh side and said eighth side face each other, wherein a length between said fifth side and said sixth side is longer than a length between said seventh side and said eighth side, wherein said fifth side and said sixth side is shorter than said seventh side and said eighth side; and

a moving member for moving said display part to a first position in which an operator who uses said image pickup apparatus can view said display face of said display part ~~causes the picked-up image to view~~, and a second position in which said display part is stowed in the image pickup apparatus body;

wherein said operator rotates said display part around a first shaft from said second position toward an upper side of said image pickup apparatus so that said display part moves from said second position to a third position and, said operator rotates said display part around a second shaft approximately perpendicular to said first shaft from said third position so that said display part moves from said third position to said first position;

~~wherein said moving member includes a first moving member and a second moving member, said first moving member enables said display part to rotate around a first shaft so that said display part moves toward an upper side in said image pickup apparatus, and said second moving member enables said display part to rotate around a second shaft substantially perpendicular to said first shaft;~~

wherein when said display part is in the first position, third direction of said display part substantially ~~coincides with~~ parallels second direction of said body, and when said display part is in the second position, first direction of said display part substantially ~~coincides with~~ parallels second direction of said body,

wherein said first direction is a direction which goes to said second side from said first side, said second direction is a direction which goes to said sixth side from said fifth side, and said third direction is a direction which goes to said fourth side from said third side.

Claim 53 (Previously presented): An image pickup apparatus according to claim 52, further comprising:

an operation member located on a second face of said body, wherein said operation member is used when picking up image, and said second face adjoins said first face and is exposed outside regardless of the position of said display part.

Claim 54 (Previously presented): An image pickup apparatus according to claim 52, wherein said lens portion is located in a face which adjoins said first face and includes said seventh side.

Claim 55 (Currently amended): An image pickup apparatus including a lens portion for converging an object image comprising:

a display part including a display face for displaying a picked-up image, wherein said display part is surrounded by a first side, second side, third side and fourth side, wherein said first side and said second side face each other, and said third side and said fourth side face each other, wherein a length between said first side and said second side is longer than a length between said third side and said fourth side, wherein said first side and said second side is shorter than said third side and said fourth side;

a body including a first operation face having a first operation member operated by an operator who uses said image pickup apparatus, said first operation face is surrounded by a fifth side, sixth side, seventh side and eighth side, wherein said fifth side and said sixth side face each other, and said seventh side and said eighth side face each other, wherein a length between said fifth side and said sixth side is longer than a length between said seventh side and said eighth side, wherein said fifth side and said sixth side is shorter than said seventh side and said eighth side; and

a moving member for moving said display part to a first position in which said operator can view said display face of said display part ~~causes the picked-up image to view~~; and a second position in which said display part is stowed in the image pickup apparatus body;

wherein said operator rotates said display part around a first shaft from said second position toward an upper side of said image pickup apparatus so that said display part moves from said second position to a third position and, said operator rotates said display part around a second shaft approximately perpendicular to said first shaft from said third position so that said display part moves from said third position to said first position;

~~wherein said moving member includes a first moving member and a second moving member, said first moving member enables said display part to rotate around a first shaft so that said display part moves toward an upper side in first operation face, and said second moving member enables said display part to rotate around a second shaft substantially perpendicular to said first shaft,~~

wherein when said display part is in the first position, third direction of said display part substantially ~~coincides with~~ parallels second direction of said body, and when said display part

is in the second position, first direction of said display part substantially ~~coincides with~~
parallels second direction of said body,

wherein said first direction is a direction which goes to said second side from said first side, said second direction is a direction which goes to said sixth side from said fifth side, and said third direction is a direction which goes to said fourth side from said third side.

Claim 56 (Previously presented): An image pickup apparatus according to claim 55, further comprising:

an operation member located on a second face of said body, wherein said operation member is used when picking up image, and said second face adjoins said first face and is exposed outside regardless of the position of said display part.

Claim 57 (Previously presented): An image pickup apparatus according to claim 55, wherein said lens portion is located in a face which adjoins said first face and includes said seventh side.